

Appl. No. 10/615,635
Amdt. dated May 23, 2005
Reply to Office action of March 22, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Amended) A position location device comprising:
 - a waterproof housing;
 - a processor contained within the waterproof housing;
 - a global positioning system receiver contained within the waterproof housing and connected to the processor; and
 - a pressure transducer connected to the processor; wherein the global positioning system receiver includes an antenna; and
 - wherein the pressure transducer is configured to measure depth under water.
2. (Cancelled)
3. (Original) The position location device of claim 1, further comprising:
 - clock circuitry connected to the processor; and
 - memory connected to the processor; and
 - at least one input/output device connected to the processor.
4. (Original) The position location device of claim 3, wherein one of the input/output devices is a microphone.

5. (Currently Amended) The position location device of claim 3, wherein one of the input/output ~~devices~~ device is a keypad including at least one button.

6. (Original) The position location device of claim 1, further comprising:

a flow meter connected to the processor; and
a compass connected to the processor.

7. (Previously Amended) The position location device of claim 6, wherein the flow meter is an impeller.

8. (Cancelled)

9. (Previously Amended) The position location device of claim 6, further comprising:

a second pressure transducer in communication with the processor; and

wherein the pressure transducer is configured to generate a signal indicative of air pressure within an air tank.

10. (Original) The position location device of claim 1, further comprising a digital camera connected to the processor.

11. (Previously Amended) A position location device comprising:

means for measuring latitude and longitude;
means for measuring depth underwater;
means for measuring time; and
means for recording measurements of latitude, longitude, depth and time;

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wherein the means for measuring latitude and longitude, the means for measuring time and the means for recording measurements are contained within a waterproof housing.

12. (Original) The position location device of claim 11, further comprising means for annotating recorded measurements of latitude, longitude, depth or time.

13. (Original) The position location device of claim 11, further comprising means for identifying a particular measurement of latitude, longitude, depth or time as being associated with a particular point of interest.

14. (Original) The position location device of claim 11, wherein the time includes information concerning day, month and year.

15. (Original) The position location device of claim 11, further comprising:

means for measuring water speed; and
means for measuring bearing.

16. (Original) The position location device of claim 15, further comprising means for measuring air time remaining.

17. - 23. (Cancelled)

24. (Currently Amended) A method of recording data, comprising:

performing a first measurement of latitude, longitude and time;

recording information indicative of the first measurement of latitude, longitude and time in a memory;

descending underwater;
measuring depth and time; ~~and~~
recording information indicative of the depth and
time measurements in the memory;
resurfacing;
performing a second measurement of latitude,
longitude and time;
recording information indicative of the second
measurement of latitude, longitude and time in the memory;
and
constructing a dive profile using information
including the latitude, longitude and time recordings
obtained when the diver is at the surface and the depth and
time measurements obtained when the diver is underwater.

25. (Cancelled)

26. (Cancelled)

27. (Previously Amended) The method of claim 25, further comprising identifying a particular measurement of latitude, longitude and time or measurement of depth and time as being associated with a particular point of interest.

28. (Previously Amended) The method of claim 27, further comprising recording descriptive information that is associated with the identified measurement of latitude, longitude and time or measurement of depth and time.

29. (Original) The method of claim 28, wherein recording descriptive information involves recording signals indicative of speech.

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30. (Original) The method of claim 24, wherein the time includes information concerning day, month and year.

31. (Original) The method of claim 24, wherein:

the measurements of latitude, longitude and time are made using a global positioning system receiver adapted to be taken below the surface of the water; and

the measurements of depth are made using a pressure transducer.

32. (Original) The method of claim 24, further comprising periodically measuring water speed and bearing.

33. (Currently Amended) The method of claim 32, further comprising:

measuring average speed;

~~measure~~ measuring air time remaining; and

estimate range based on average speed and air time remaining calculations.

34. (Cancelled)